

## **MAGNETIC ACTUATOR UNDER PIEZOELECTRIC CONTROL**

### **ABSTRACT**

5           A magnetic actuator for adjusting a force on a load is presented herein. The  
magnetic actuator comprises a first actuating part that includes a first magnetic element  
and a second magnetic element, a second actuating part that includes a third magnetic  
element and a piezoelectric element attached to the first and second magnetic elements to  
relatively displace the first and second magnetic elements. The first actuating part and  
10   said second actuating part are constructed and arranged to generate a magnetic force  
between both actuating parts along a first direction with a load being attached to one of the  
first and second actuating parts.